Name:

at1113exam: Expand, factor, and solve quadratics (v322)

1. Expand the following expression into standard form.

$$(6x - 5)(3x - 7)$$

2. Solve the equation.

$$(5x - 3)(2x + 9) \;=\; 0$$

3. Expand the following expression into standard form.

$$(5x + 3)^2$$

4. Expand the following expression into standard form.

$$(4x - 5)(4x + 5)$$

5. Solve the equation.

$$9x^2 + 49x - 36 \;=\; 2x^2 - 3x - 4$$

6. Solve the equation with factoring by grouping.

$$15x^2 + 18x + 20x + 24 \;=\; 0$$

7. Factor the expression.

$$16x^2 - 25$$

8. Factor the expression.

$$x^2 - 4x - 45$$